

For Research Use Only

# NKG7 Polyclonal antibody

Catalog Number: 11532-1-AP



## Basic Information

<b>Catalog Number:</b> 11532-1-AP	<b>GenBank Accession Number:</b> BC015759	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4818	<b>Recommended Dilutions:</b> WB: 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q16617	IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> natural killer cell group 7 sequence	IHC: 1:200-1:800
<b>Immunogen Catalog Number:</b> AG2117	<b>Calculated MW:</b> 165 aa, 18 kDa	
	<b>Observed MW:</b> 18 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IP, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	WB : NK-92 cells,
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	IP : NK-92 cells,
	IHC : human colon cancer tissue,

## Background Information

Natural killer cell granule protein 7 (NKG7) regulates lymphocyte granule exocytosis and downstream inflammation in a broad range of diseases. NKG7 expressed by CD4+ and CD8+ T cells were key in promoting inflammation during visceral leishmaniasis and malaria-two important parasitic diseases. It is expressed by natural killer cells and is critical for controlling cancer initiation, growth, and metastasis (PMID: 32839608; 8458737). In brief, NKG7 is a necessary T-cell intrinsic factor for the cytotoxic function of CD8+ T cells and established NKG7 as a new therapeutic target for cancer immunotherapy (PMID: 34911739).

## Storage

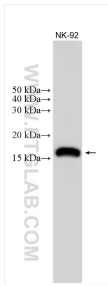
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

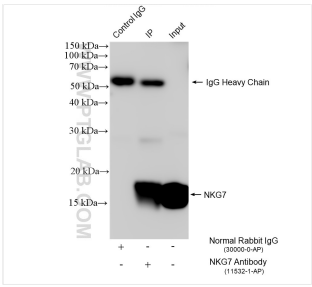
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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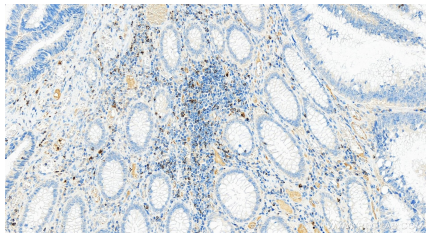
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11532-1-AP (NKG7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-NKG7 (IP:11532-1-AP, 4ug; Detection:11532-1-AP 1:1000) with NK-92 cells lysate 1120 ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11532-1-AP (NKG7 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).